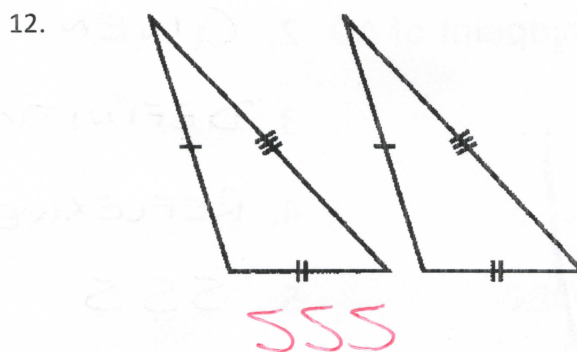
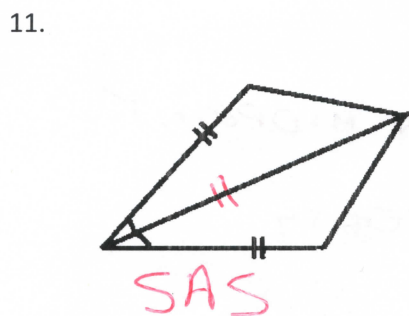
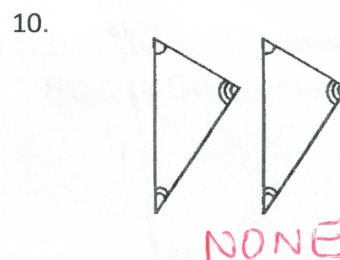
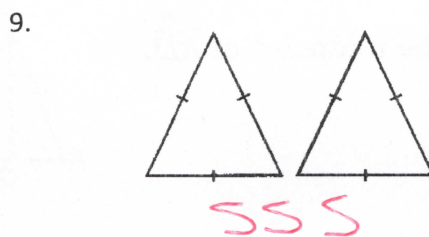
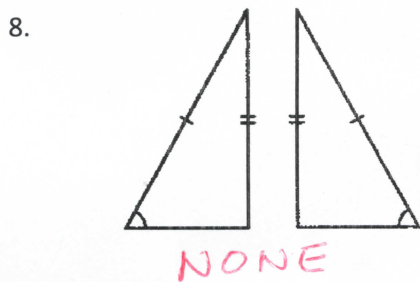
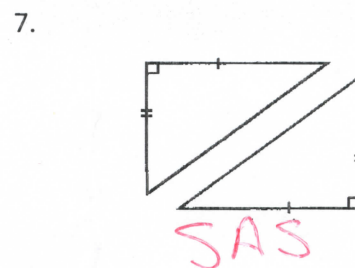
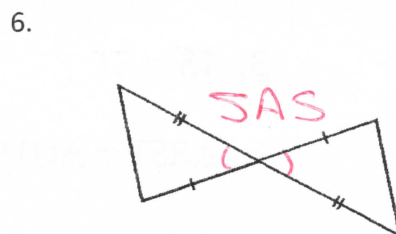
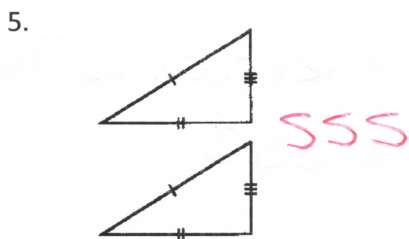
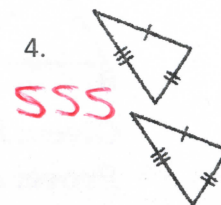
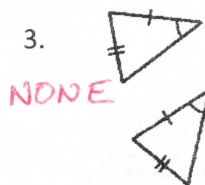
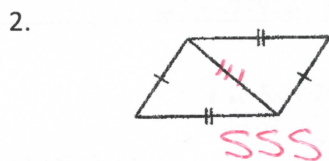


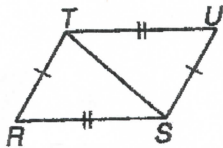
Unit 4 Worksheet 6 SSS and SAS

For #1-4, decide what reason (SSS, SAS or NONE) the triangles are congruent.



For #13 & 14, fill in the proof with the reasons.

13.



**Given:**  $\overline{RS} \cong \overline{UT}$ ,  $\overline{RT} \cong \overline{US}$

**Prove:**  $\triangle RST \cong \triangle UTS$

STATEMENTS

REASONS

1.  $RS \cong UT$

1. GIVEN

2.  $RT \cong US$

2. GIVEN

3.  $TS \cong ST$

3. REFLEXIVE PROP.

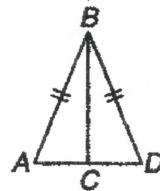
4.  $\triangle RST \cong \triangle UTS$

4. SSS

14.

**Given:**  $\overline{AB} \cong \overline{DB}$  and  $C$  is the midpoint of  $\overline{AD}$ .

**Prove:**  $\triangle ABC \cong \triangle DBC$



STATEMENTS

REASONS

1.  $AB \cong DB$

1. GIVEN

2.  $C$  is the midpoint of  $AD$

2. GIVEN

3.  $AC \cong DC$

3. DEFINITION OF A MIDPOINT

4.  $BC \cong BC$

4. REFLEXIVE PROPERTY

5.  $\triangle ABC \cong \triangle DBC$

5. SSS